

D6696

16×16 Professional Audio Processor



Description

This series of devices supports 16×16 analog channels with a high-quality 21-level preamplifier circuit and a DSP processing bus structure to deliver high-fidelity sound reproduction. It is widely applicable to large venues such as theaters, concert halls, remote video conferencing rooms, stadiums, churches, conference centers, and theme parks, meeting diverse sound reinforcement needs. The device is designed for simplicity in operation and features intelligent control functions.

Features

- 24-bit/48kHz sampling frequency, high-performance AD/DA converters, and a 40-bit floating-point DSP processor.
- High-precision input sensitivity adjustment with 21 levels, 3dB steps, and a maximum input gain of 60dB.
- Full-featured matrix mixing function, offering exceptional and clear sound, including EQ, GATE, COMP, LIMIT, AGC, and more.
- GPIO supports 8-channel scene switching for quick operation, with RS232 and RS485 central control commands.
- 60 scene presets with a user-friendly interface, supporting fast switching between Chinese and English.
- TCP/IP control protocol for PC connection, enabling web-based quick control and parameter adjustment.

Specifications

Model	D6696
Input/Output	16×16
Input/Output Type	Analog
Signal Processor	40-bit floating-point DSP 400MHz
Bit Depth	24-bit
Sampling Frequency	48kHz

Input Impedance	<10KΩ
Output Impedance	200Ω
A/D Dynamic Range	118dB
D/A Dynamic Range	118dB
Max Input Level	+18dBu
Max Output Level	+18dBu
Transmission Delay	4.1ms
Output Channel Delay	0ms~1500ms (Step:0.02ms)
THD+N	≤0.005% (+4dBu 1kHz)
Frequency Response	20Hz~20kHz ±0.3dB
CMRR	≥55dB
Crosstalk	≤-100dB
SNR	≥111dB (20~20KHz)
Dynamic Range	≥111dB (20~20KHz)
Noise Floor	≤-93dBu (20~20KHz)
Connection Type	TCP/IP, RS232, RS485
Preset	60
Size	482×253×44mm
Net/Gross Weight	3.3kg / 3.8kg